AZENTEK™

SmartMirror™

User's Guide

English (US)

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Introduction

About this manual

Conventions

For better legibility and clarification, the following styles are used in this manual:

Bold and italics:	***Registered names, company and product descriptions.***
SMALL CAPITALS:	WINDOW AND DIALOG BOX TITLES.
Bold:	**Highlighting of important parts in the text.**
Underlined:	Descriptions of buttons, input fields and other elements on the user interface.

Symbols

The following symbols refer to specific passages of text:

Warnings

Instructions and tips for operating the software

More detailed information and explanations

Legal notice

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Customer Service

Our service team is available via telephone or E-mail.

Telephone Support

Telephone: (866) 281-1250 (Toll Free)

Service Hours: Monday through Friday, 8 a.m. to 6 p.m. ET
(except official holidays)

E-mail

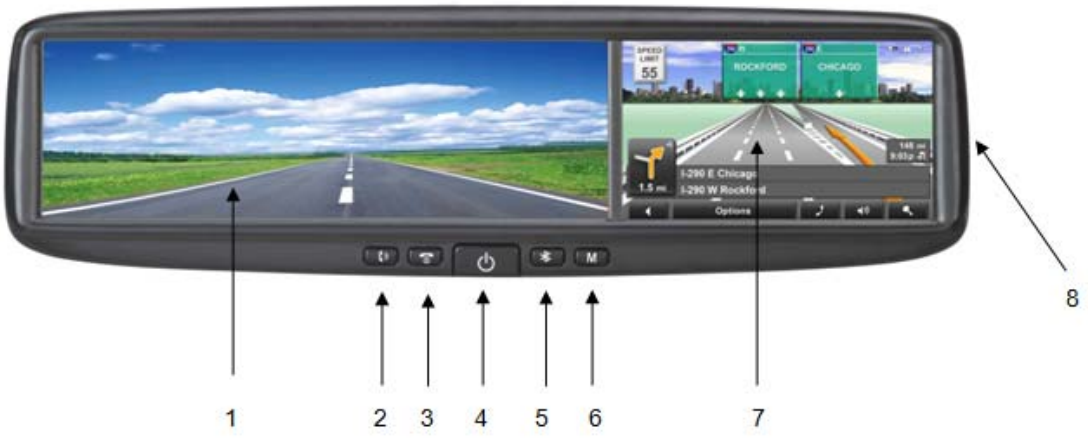
To ensure as timely a response via e-mail, please direct support inquries to support@azentek.com.

Customers will receive a response within 2 business days.

Welcome

Introducing the *SmartMirror*

Welcome to the exciting world of GPS navigation. The ***SmartMirror*** offers Global Positioning System (GPS)–based navigation and millions of Points Of Interest (POIs).



1	Mirror
2	Answer (Phone)
3	Hangup (Phone)
4	On/Off + Video Select
5	Bluetooth Pair (When in Bluetooth Menu)
6	Main Menu
7	Touch Screen
8	SD memory card slot

About GPS navigation

GPS is based on a total of 24 satellites that circle the earth and are constantly transmitting their position. The GPS receiver uses this data and calculates its own geographical position on the basis of the information transmitted by the various satellites.

For a sufficiently precise positioning it is necessary to obtain the data from at least three satellites. With the data from 4 or more satellites the altitude above sea level can also be ascertained. The determination has an accuracy of about 3 yards.

Once the navigation device has determined your position, it can be used as a starting point for route calculation.

The map data on your navigation device includes the geographical coordinates of all digitally recorded Points Of Interest (POIs), streets and places. This enables the device to calculate a route between a starting point and a destination.

The calculation of the current position and its representation on the map takes place once every second so your current position is always shown on the map.

If GPS reception is impaired, navigation is interrupted. The navigation software remains active.

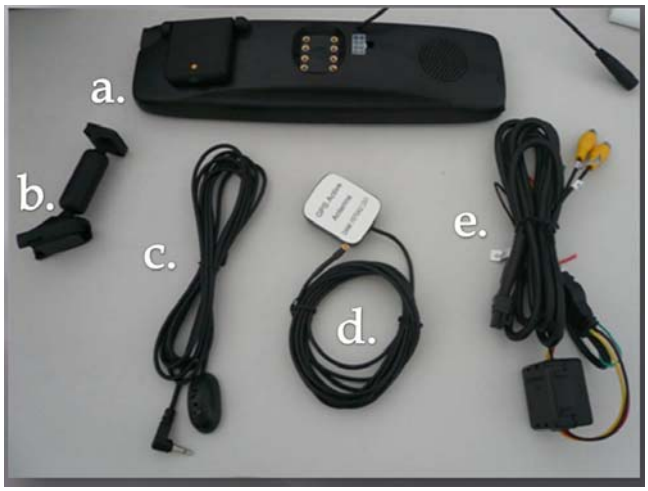
As soon as GPS reception is restored, the navigation system calculates any change of position which has occurred in the meantime. Navigation may simply be continued.

Caution! The United States government operates the Global Positioning System (GPS) and is solely responsible for its accuracy and maintenance. Changes by the United States government may affect the accuracy and performance of all GPS equipment, including your personal navigation device.
Caution! Ordinances or laws may restrict use of certain abilities of your navigation device on public or private land.

Getting Started

What's included

The ***SmartMirror*** comes with the following accessories. If the contents are incomplete, please notify us **within 14 days of purchase**. The purchased product includes:



- a. Mirror with attached GPS antenna
- b. Windshield mounting bracket
- c. Microphone
- d. External GPS antenna (Not required for most installations)
- e. Power Supply

Important safety information

Please read the following notices and safety information carefully before starting to use your navigation system.

Navigation safety information

Use this navigation system at your own risk.

Caution! To prevent accidents, do not operate the navigation system while driving.
Caution! Do not look at the display unless it is absolutely safe to do so!
Caution! Traffic regulations have priority over any instructions from the navigation system.
Caution! Follow the instructions of the navigation system only when the circumstances and the road traffic regulations allow you to do so! The navigation system guides you to your destination even if you deviate from the calculated route.
Caution! Check that the cradle is secured and adjusted properly before each journey.

Note: If you have not understood the spoken instructions, or you're not sure about what to do next, you can briefly refer to the map or arrow view of your navigation system.

Safety information for the navigation device

Caution! Protect the device from moisture. The device is not waterproof and is not protected against water damage.
Caution! Do not run cables directly next to safety-relevant devices and supply lines.
Caution! After installation, check all safety-relevant equipment in the car.
Caution! Do not open the navigation device's casing under any circumstances.
Caution! Do not expose the navigation device to extreme heat or cold. This may damage the device or impair its function.

Note: Ensure that there are no kinks in the cables and that they will not be damaged by any sharp objects.
Note: To clean the navigation device, use a moist cloth only .
Note: Create a backup of the data contained on the memory card provided.
Note: The memory card must remain inserted in the device during operation of the navigation system.
Note: Use SD memory cards only! Ensure that memory card contacts are clean and undamaged.

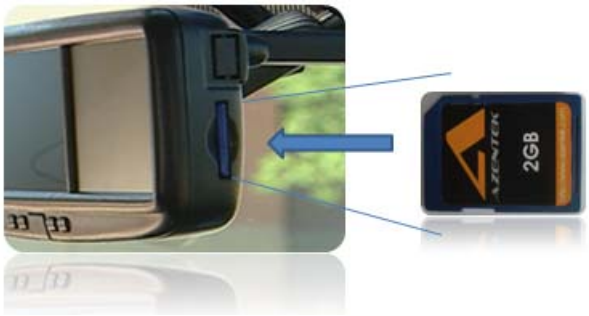
Safety guidelines when installing in your car

Caution! When installing the SmartMirror, ensure that it does not represent a risk in the event of an accident.
Caution! Do not run cables directly next to safety-relevant devices and power supplies.
Caution! After installation, check all safety-relevant equipment in the car.
Caution! The SmartMirror is to be connected to vehicles with an operating voltage of 12V only.

Preparing the SmartMirror for use

Use the device at your own risk.

Caution! Please be sure to see the safety information in “Important safety information” on page 6.



Inserting a memory card

The SD memory card contains maps and navigation software. It also stores saved destinations, routes, and logbook entries.

- Insert the memory card provided into the slot on the side of the device. Press the card into the device until it locks into place.

Removing the memory card

1. Switch the navigation device off by pressing the ⏻ (On/Off) switch for at least 6 seconds.
2. Press the memory card gently into the device until the lock disengages.

Basic Operations

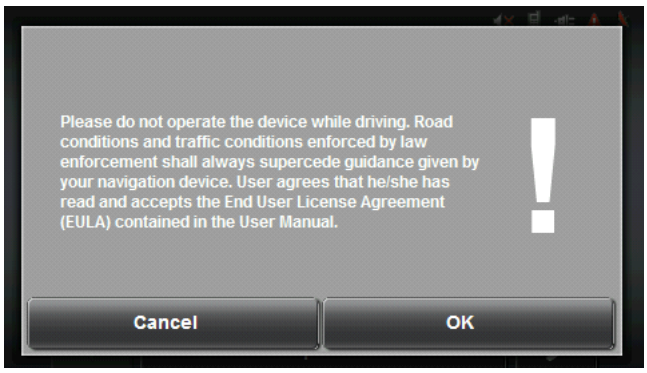
Starting the *SmartMirror*

1. Press and hold the ⏻ (On/Off) switch.

   If password protection has been activated, the ENTER PASSWORD WINDOW opens.

2. Enter the password.
3. Tap the Continue button.

   Each time the navigation device is turned on, the following message appears when the software is started again:


Please do not operate the device while driving. Road conditions and traffic conditions enforced by law enforcement shall always supercede guidance given by your navigation device. User agrees that he/she has read and accepts the End User License Agreement (EULA) contained in the User Manual.
Cancel
OK

4. After you have read and fully understood the text, tap OK.

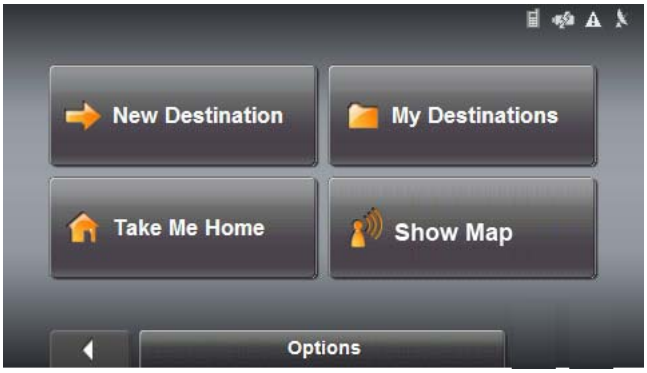
   Note: If you do not accept these instructions, tap Cancel to exit the navigation software.

   The MAIN WINDOW displays.

The Main Window

The MAIN WINDOW opens when the navigation software starts.

You can reach all of the navigation software functions from this window.



New Destination

Tap this button to:

- Select an address by city or street. (See page 20.)
- Select a POI as a destination. (See page 22.)
- Select a POI by tapping on the map. (See page 31.)

My Destinations

Tap this button to select a destination from:

- A list of destinations you have saved. (See page 38.)
- A list of the most recently entered destinations. (See page 37.)

Take Me Home

Tap this button to:

- Specify your home address as a destination. (See page 36.)
- Quickly create a route back to your home address from your present location. (See page 39.)

Show Map

Tap this button to:

- Show your location on the current map.

The Options Button

Tap this button to:

- Access ROUTE PLANNING WINDOW to:
  Create a route. (See page 41.)
  Save a route. (See page 43.)
  Load a saved route. (See page 43.)
- Access the SETTINGS WINDOW to set:
  Basic Settings. (See page 55.)
  Show information on the current map or change maps. (See page 57.)
  POI settings. (See page 57.)
  View or change route profile information. (See page 57.)
- Save the current location as a destination. (See page 36.)

Returning to the Main Window

To return to the Main Window from any other window:

- Tap (Back) repeatedly, until the MAIN WINDOW redisplays.

Initializing the GPS receiver

Note: It can take up to 20 minutes to initialize the integrated GPS receiver for the first time.
Each time you turn on the device, GPS reception starts within one minute.
If the navigation device has been switched off for more than a week, the next initialization can take up to 10 minutes.

As soon as the navigation device has been switched on, initialization of the GPS receiver begins.

In the upper right-hand corner of the display, the GPS symbol appears. As soon as data from at least 3 satellites is received, the symbol changes to **GPS Ready**.

Note: If the GPS symbol displays **GPS Ready** after considerably less than 20 minutes, it is advisable to leave the receiver switched on for at least an additional 15 minutes to ensure reliable operation.

Setting the volume

The volume of the spoken driving instructions can be adjusted during navigation.

With a map displayed:

1. Tap (Volume).
   The volume bar opens. It contains three buttons for adjusting the volume:
   (Louder), (Quieter), (Volume on/off).
2. Tap (Volume) again.
   The volume bar closes.

Stopping the SmartMirror

- Press and hold the (On/Off) switch for at least 2 seconds.

Viewing device statuses

Symbols located at the top of the screen are used to display information.

GPS

The GPS symbol can show the following GPS reception status:

No Symbol The built-in GPS receiver is not operational. Contact customer service if the problem persists.

No Signal Data is being received from less than three satellites. Position cannot be calculated.

GPS Ready Data is being received from at least three satellites. Position can be calculated.

For more information, see “About GPS navigation” on page 4.

Direction

The Direction symbol shows the direction you are currently heading. It can show the following points of the compass: N, NE, E, SE, S, SW, W and NW.

Using software keyboards

Software keyboards appear on the screen when text entries are necessary.

All entries can be made on the software keyboard using the fingertips. Only capital letters can be entered. When entering town or street names you need not enter any special characters. The navigation system fills in these characters for you automatically. Three keyboards are available for entering destination information.

Alphabetic keyboard

Tap ABC to display the alphabetic keyboard.
Only capital letters can be entered.

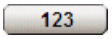
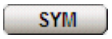
Numeric keyboard

Tap 123 to display the numeric keyboard.

Special character/symbol keyboard

Tap SYM to display the special character keyboard.
As soon as you have entered a special character, the Alphabetic keyboard reappears automatically.

Special keys

	On the Alphabetic and Numeric keyboards, enters a space character.
	On the Alphabetic and Numeric keyboards, deletes the previous character and moves the cursor back one space.
	On the Alphabetic and Special Character keyboards, opens the Numeric keyboard.
	On the Numeric and Special Character keyboards, opens the Alphabetic keyboard.
	On the Alphabetic Numeric keyboards, opens the Special Character keyboard.

Using menus

Some buttons have menus which open when activated.

To select a function:

- Tap on a menu button to execute its function.

To close a menu without selecting a function:

- Tap on the button you used to open the menu.

Security

Password protection

By creating a password, you can protect your navigation system from unauthorized use.

Note: Password protection takes effect after the navigation device has been switched off completely. To do this, press the (On/Off/Standby) switch for at least 6 seconds.

The Password Lock Window

Setting a password

Note: The password must be exactly 4 digits.

In the MAIN WINDOW:

1. Tap Options > Settings
   The SETTINGS WINDOW opens.
2. Tap Options > Password Lock.
   The PASSWORD LOCK WINDOW opens.
3. In the New password field, type the password.
4. Re-type the new password in the Confirm new password field.
5. Tap Save password.

Changing a password

In the MAIN WINDOW:

1. Tap Options > Settings
   The SETTINGS WINDOW opens.
2. Tap Options > Password Lock.
   The PASSWORD LOCK WINDOW opens.
3. Type the current password in the Old password field.
4. Type the new password in the New password field.

5. Re-type the new password in the Confirm new password.
6. Tap the Change Password button.

Cancelling password protection

In the MAIN WINDOW:

1. Tap Options > Settings
   The SETTINGS WINDOW opens.
2. Tap Options > Password Lock.
   The PASSWORD LOCK WINDOW opens.
3. Tap Options > Deactivate password lock.
4. Enter the current password in the Enter password field.
5. Tap the Deactivate password lock button.

Forgotten your password?

If you have forgotten your password, do the following:

On any password window:

1. Tap (Info).
2. Call the number displayed in the window.
3. Follow the instructions given by the service personnel.

Selecting Destinations

Caution! Use the navigation system at your own risk.
Caution! Please be sure to refer to the safety information in “Important safety information” on page 6.

New destinations for the ***SmartMirror*** are destinations that you have not yet navigated to or those that you have not yet stored.

You can enter an address, select a POI, or select a destination from the quick search function.

Using auto-complete to select a destination

Lists often appear from which you can select an entry. This is the case, for example, when you enter a location. After you type the first letter, the largest city in the selection area appears. Once you type a second letter, the list shows all map areas that begin with the typed letters.

If you enter additional letters, the list only contains entries that begin with your typed characters. The more characters you enter, the shorter the returned list becomes.

You can move though a list using (Up) and (Down).

To accept an entry from the list:

- Tap on the entry.
  The list closes once an entry is accepted.

Selecting a search area

The Search Area button, used to select a map area, is located at the top of a location entry window. Once an area is selected, a code on the button reflects the selection. For example, is the United States is selected, “USA” appears on the button. If the Canadian province of Alberta is selected, the code “AB” is shown.

When you enter a new destination for the first time, the SEARCH AREA list opens. To select an area that is different from the one currently shown, do the following:

1. Tap (Search Area).
   The SEARCH AREA list opens.
2. Tap on the area (country, state, or province) in which your destination lies.
   The button displays the code for the selected destination area.

Note: Only areas that are represented in the currently loaded map can be selected.

Selecting Destinations

Enter an Address

To find an address, you can specify a:

City first	If you do not know the exact street address.
Street first	If you do not know the actual city.

Search for POI

Points of Interest, (POIs) are useful addresses that are organized according to particular criteria. POIs include airports, restaurants, hotels, gas stations, government offices, banks, hospitals, shopping centers, etc. Icons representing the POIs can be displayed on the map.

Nearby	POIs nearby are special destinations that are located within a given radius of your current location. This means you can always find the nearest gas station, for example, no matter where you are.
Nationwide	POIs of nationwide significance are airports, places of interest, national monuments, etc. This enables you to find places of interest, for example, without having to know the actual place where it is located.
In a City	POIs in a given location can be useful when navigating in an unfamiliar town.
Direct Access	POI direct access system contains three categories of special destinations. POIs in your vicinity that correspond to these categories can be listed quickly, without the need for additional entry.

By Tapping on the Map

You may indicate a destination directly on the map. In addition to towns and streets, you may also select POIs.

Entering an address

Specifying a city first

In the MAIN WINDOW:

1. Tap New Destination > Enter an Address.
2. Select (City First).

The ADDRESS WINDOW opens.

3. Enter the name of the city or the postal code of the destination location.

4. Enter the name of the destination street.
5. Enter the house number. If you don't know the number of the house, leave this field blank to display the Intersection field.
6. If you don't know the house number, but know the name of a nearby side street, tap in the Intersection field and enter the name of this street. The navigation system calculates a route to the intersection of the streets you have specified.

Note: You do not have to enter all the address details. If you only specify the:

- Town - a route is calculated to the town center.
- Town and street - a route is calculated to the center of the street.

7. Tap the Start Navigation button.

   The map opens in **Preview** mode.

For more information, see “Starting navigation” on page 33.

Specifying a street first

In the MAIN WINDOW:

1. Tap New Destination > Enter an Address.
2. Select (Street First).

The ADDRESS WINDOW opens.

3. Enter the name of the destination street.

4. Enter the house number. If you don't know the number of the house, leave the field blank to display the Intersection field.
5. If you don't know the house number, but know the name of a nearby side street, tap on the Intersection field and enter the name of this street. The navigation system calculates a route to the intersection of the streets you have specified.

Note: You do not have to enter all the address details. If you only specify the:
- Town - a route is calculated to the town center.
- Town and street - a route is calculated to the center of the street.

6. Tap the Start Navigation button.
   The map opens in **Preview** mode.

Note: For more information, see “Starting navigation” on page 33.

Selecting a Point of Interest (POI) destination

POIs nearby

Note: GPS reception must be sufficient for determining position. You can see if GPS reception is sufficient by looking at the (**GPS Ready**) symbol. For more information, see “GPS ” on page 12.

In the MAIN WINDOW:

1. Tap New Destination > Search for POI.
2. Tap Nearby.

3. Specify a category from which you would like to select a POI.

4. If a sub-category exists, specify a sub-category.
   The Name of the Destination list opens. It contains the nearest POIs in the specified category, sorted by distance.
5. Tap on the name of the destination.

6. Tap the Start Navigation button.
   The map opens in **Preview** mode.

For more information, see “Starting navigation” on page 33.

National POIs

In the MAIN WINDOW:

1. Tap New Destination > Search for POI**.**
2. Tap Nationwide.

The POI OF NATIONAL SIGNIFICANCE WINDOW opens.

3. Specify a category from which you would like to select a POI.

The Name of the Destination list opens. It contains a list of national POIs, sorted by distance.

Enter the first characters from the beginning of the POI name to shorten the returned list of POIs.

4. Tap on the name of the destination.

5. Tap the Start Navigation button.

The map opens in **Preview** mode.

For more information, see “Starting navigation” on page 33.

POIs in a specified city

On the MAIN WINDOW:

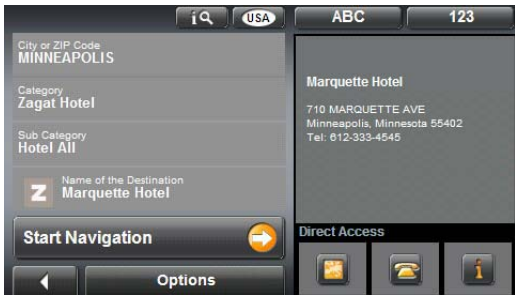
1. Tap New Destination > Search for POI.
2. Tap in a City.

3. Enter the name or the postal code of the destination location.

4. Specify a category from which you would like to select a POI.
5. If sub-categories exist for the category, specify a sub-category.
   The Name of the Destination list opens. It contains POIs from the specified category, sorted alphabetically.

Enter the first characters from the beginning of the POI name to shorten the returned list of POIs.

6. Tap on the name of the destination.



7. Tap the Start Navigation button.

The map opens in **Preview** mode.

For more information, see “Starting navigation” on page 33.

POI direct access

Note: GPS reception must be sufficient for determining position. You can determine whether GPS reception is sufficient by looking at the (**GPS Ready**) symbol. For more information, see “GPS ” on page 12.

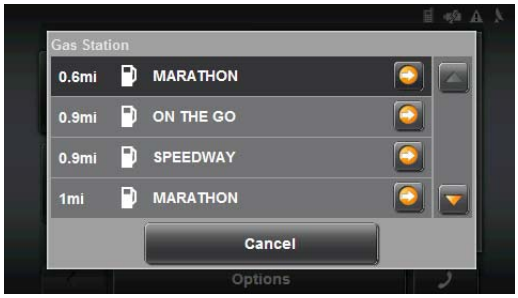
In the MAIN WINDOW:

1. Tap the New Destination button.

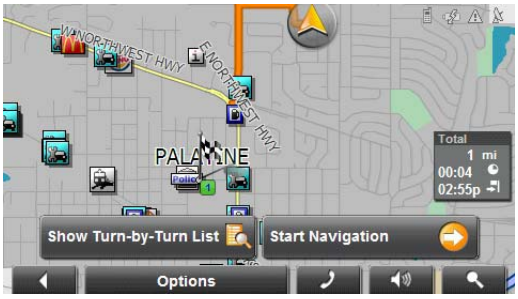
The NEW DESTINATION MENU opens.

The symbols of the categories which have been selected for direct access can be seen in the menu at the bottom.

2. Tap on a category from which you would like to select a POI.



The Name of the Destination list opens. It contains the nearest POIs in the specified category, sorted by distance.



3. Tap on the name of the destination.

The map opens in **Preview** mode.

For more information, see “Starting navigation” on page 33.

Specify direct access POI categories

In the MAIN WINDOW:

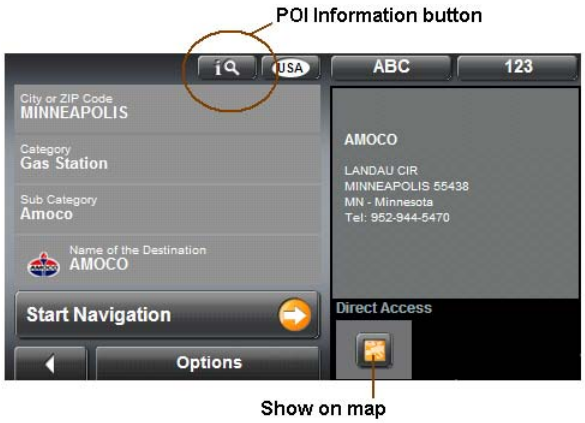
1. Tap Options > Settings
2. Tap POI.

3. In the Direct Access 1 field, tap (List) and select a POI category.
4. Repeat the above step in the Direct Access 2 and Direct Access 3 fields.
5. When finished, tap Done to save the changes.

Information about the POI

For many destinations that you specify, there will be additional information available, stored in the navigation system's database.

For example, for many restaurants there is a telephone number available. You can call the restaurant in order to reserve a table, for example.



On the DESTINATION SELECTION WINDOW, the following buttons are available:

	Destination Info	Opens the DESTINATION INFO WINDOW. It contains basic information about the POI including address and phone number.
	Show on Map	Show the POI on a map relative to your current location.

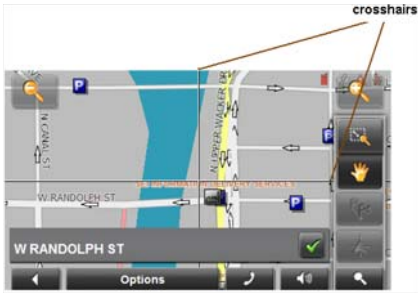
Selecting a destination by tapping the map

On the MAIN WINDOW:

1. Tap the Show on Map button.
2. Tap (Destination search).

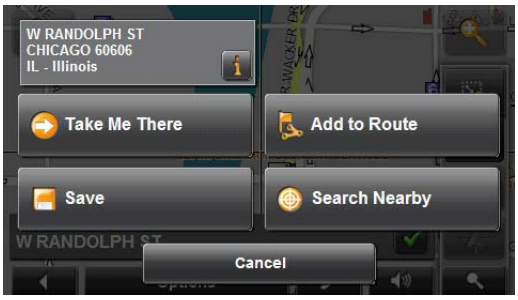
The map opens in **Destination search** mode.

3. Tap on the point to which you wish to navigate.
   The destination that you have selected appears under the cross hairs.



4. Tap (OK).

   The DESTINATION ON MAP WINDOW opens. Detailed address information for the selected destination displays in the upper left-hand corner.



5. Tap the Take Me There button.

The map opens in **Preview** mode.

For more information, see “Starting navigation” on page 33.

Starting navigation

With the map open in **Preview** mode, the destination is shown as a small flag. The route and the estimated trip time are displayed.

With the map open in **Preview** mode:

- Tap the Start Navigation button or simply start driving.

Quitting navigation

- Tap (Back) to quit navigation.
  A window prompts you to confirm.

No GPS reception

When GPS signal is interrupted, the following message appears:

> "GPS reception is currently not sufficient. Navigation starts automatically as soon as GPS reception is OK again."

You have the following options:

- Wait until GPS reception is sufficient for determining position, the route is recalculated and you can begin navigation.
- Tap the Cancel button. The MAIN WINDOW opens. Your destination is saved in the LAST DESTINATIONS list.
- Tap the Demo button. The route is calculated using the center of the specified location as starting point. The simulation of the calculated route begins.
- Tap (Back) to end the demonstration.

Arriving at your destination

A message displays when you have reached your destination.

Your current position (indicated by an orange triangle) is shown on the map.

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My Destinations

Every destination that you enter and the destinations from the **LAST DESTINATIONS** list can be saved to the FAVORITES list. This is useful if you often navigate to a particular destination.

Saving a destination

1. Enter a destination. (See “Selecting Destinations” on page 17.
   Do not tap the Start Navigation **button!**
2. Tap Options > Save Destination.

- OR –

1. Select a destination from the LAST DESTINATIONS LIST. (See page 37.)
   Do not tap the Start Navigation **button!**
2. Tap Options > Save as Favorite.

3. Enter a name for the destination.
4. If you want to define the destination as your home address, tap (Toggle) so that the value Yes is highlighted in black.
5. Tap the Save button.

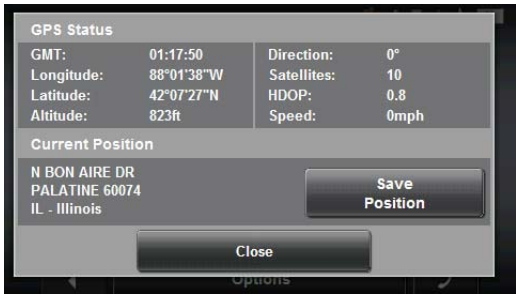
Saving the current location using GPS

The GPS STATUS WINDOW provides you with an overview of the data the navigation system calculates from the received GPS signals.

GPS status is available via the options of several windows.

In the GPS STATUS WINDOW:

1. Tap Options > GPS status.



The current location can be stored in the FAVORITES list.

2. Tap the Save Position button.
   The SAVE DESTINATION AS... WINDOW opens. The cursor blinks in the Name field.
3. Enter a name for the destination.
4. Specify whether your current position should be stored as the home address.
5. Tap the Save button.

Saving your home address as a destination

Only one destination from the **FAVORITES** list can be defined as your home address.

You can begin navigation to this destination quickly by tapping the Take Me Home button in the MAIN WINDOW.

1. Select the destination which you want to define as your home address from the FAVORITES list. (See page 38.)
2. Tap Options > Home Address.
   The selected destination is saved as your home address. On the FAVORITES list, a house icon is shown next to your home address.

Selecting a saved destination

The following lists of destinations and addresses are available for selection under My Destinations.

LAST DESTINATIONS Destinations you have previously navigated to.

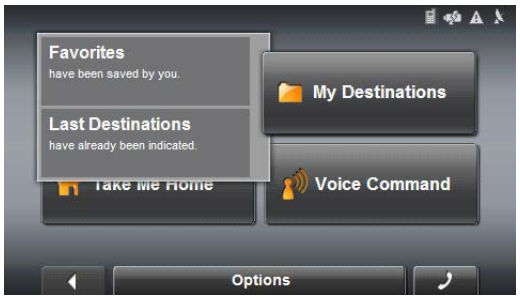
FAVORITES Destinations you have stored.

Selecting a destination from the Last Destinations list

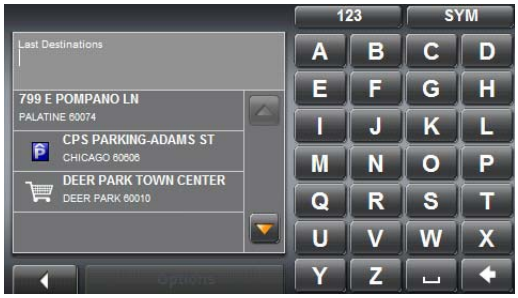
Saves the last 30 destinations to which you have navigated in the LAST DESTINATIONS list.

In the MAIN WINDOW:

1. Tap My Destinations > Last Destinations.



2. Tap the destination to which you would like to navigate.



3. Tap the Start Navigation button.

The map opens in **Preview** mode.

For more information, see “Starting navigation” on page 33.

Selecting a destination from the Favorites list

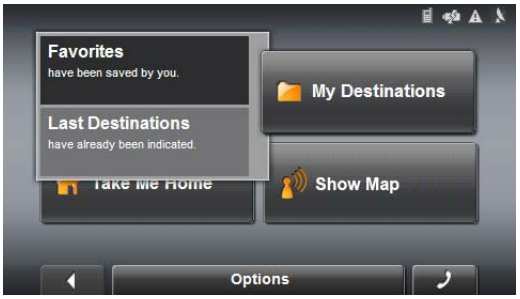
Destinations to which you often travel can be saved in the **FAVORITES** list.

In the FAVORITES list, up to 300 destinations can be saved.

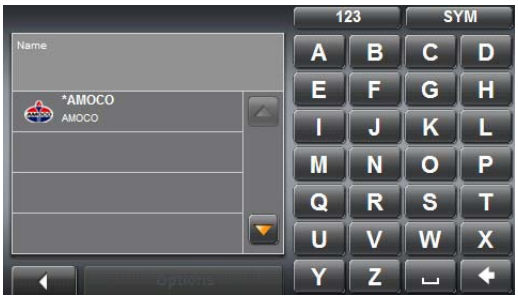
Information on how to store a destination can be found in “Saving a destination” on page 35.

In the MAIN WINDOW:

1. Tap My Destinations > Favorites.



2. Tap the destination to which you would like to navigate.



3. Tap the Start Navigation button.
   The map opens in **Preview** mode.

For more information, see “Starting navigation” on page 33.

Navigating homewards

With the SmartMirror you can save an address as a home address. You can navigate to your home address at anytime by activating a single button.

The first time you tap the Take Me Home button, you are asked to enter your address.

For more information, see “Saving your home address as a destination” on page 36.

In the MAIN WINDOW:

- Tap the Take Me Home button.

  If you have not yet entered your home address, a window displays.

  Navigation, using the current route profile information to calculate the route, begins.

For more information, “Viewing the Route Profile” on page 44.

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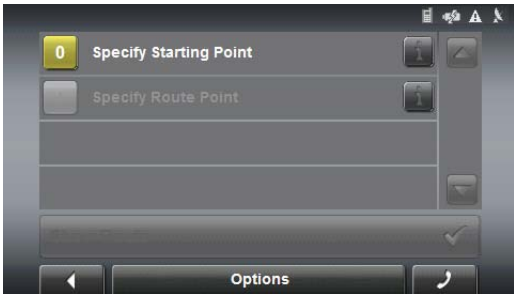
Working With Routes

With the ***SmartMirror***, you can preplan routes. Planned routes can be saved for later use, allowing you to create as many routes as you like.

Accessing the Route Planning Window

In the MAIN WINDOW:

1. Tap the Options button.
   The options list opens.
2. Tap the Route Planning option.
   The ROUTE PLANNING WINDOW opens.



Entering the starting point

The starting point of a route, is the point at which you want to begin your trip. This does not need to be the current location. If you are at home planning a route for your vacation, you could, for example, enter your hotel as the starting point.

The starting point is only important if you want to see a planned route on the map, but currently have no GPS reception, or you are not currently at the planned starting point. The starting point that you enter therefore has the flow number "0".

As soon as you begin navigation, your current location is used as the starting point for the route calculation.

The first stage is the trip to the route point with the flow number "1".

On the ROUTE PLANNING WINDOW:

1. Tap the Specify Starting Point button.
   The STARTING POINT menu opens.
2. Select:
   - Enter an Address to search for a location address.
   - Search for a POI to search for a POI.
   - My Destinations to select a location from the FAVORITES or LAST DESTINATIONS lists.
   - My Address to select your home address. (Only available if you have already specified a home address.)
   - Current Position to specify your current position as the starting point.

3. Enter the starting point. (See the corresponding section of “Selecting Destinations” on page 17.)
4. Tap the Set Starting Point button.
   The selected destination appears next to the 0, indicating that it is the Starting Point of the route.

Changing the starting point

On the ROUTE PLANNING WINDOW:

1. Tap the Specify Starting Point button.
   The STARTING POINT menu opens.
2. Select a different starting point by following the above steps.

Entering route points

Route points are destinations on the route that you want to navigate to.

The flow number for each route point can be found on a button in front of it.

1. Tap the Add Route Point field.
   The ROUTE POINT menu opens.
2. Tap on the button for the desired destination entry type.
3. Enter the route point. (See the corresponding section of “Selecting Destinations” on page 19.)
4. Tap the Add button.
   The selected route point is shown next to its flow number.
5. Repeat these steps for each additional destination that you want to add to your route.

Changing the order of route points

Route points can be deleted from a route. The order of the route points can be varied as you wish.

Note: The starting point (flow number "0") can not be moved nor deleted.

On the ROUTE PLANNING WINDOW:

- Tap on the route point that you want to edit.
  The context menu contains the following buttons:

Route Point Up: Moves the selected route stage forwards. (Example: route point 2 becomes route point 1).

Route Point Down: Moves the selected route point backwards. (Example: route point 2 becomes route point 3).

Delete: Deletes the selected route point. A window prompts you to confirm deletion.

Managing routes

You can save each planned route under a particular name.

Note: Only the start point and route points are saved. The calculated route is not. If you load a route that has been saved, it must be recalculated before navigation can begin.

You can load, rename or delete stored routes.

Saving routes

You can save a route after you have entered the starting point and at least one route point.

On the ROUTE PLANNING WINDOW:

1. Tap Options > Save Route.
2. Enter a name for the route.
3. Tap the Save button.
   The route is saved to the SAVED ROUTES list.

Loading routes

On the ROUTE PLANNING WINDOW:

1. Tap Options > Saved Routes.
2. Tap the route you want to load.
3. Tap the Load Route button.
   The ROUTE PLANNING WINDOW displays the starting point and the route points of the selected route.

Navigation

After the route is calculated, you can begin navigation or view a simulation of the route.

Calculating and displaying routes

With the ***SmartMirror***, you can preplan routes. Planned routes can be saved for later use, allowing you to create as many routes as you like.

On the ROUTE PLANNING WINDOW:

1. Load a saved route.

- OR -

2. Enter a starting point and at least one route point.
3. Tap the Show Route button.
   The map opens in **Preview** mode.

   The starting point and the route points are marked by flags. For each stage, the distance and the estimated trip time is given. This information is also displayed for the entire route.
4. Tap the Start Navigation button or simply start driving.

Viewing the Route Profile

The calculation of a route is based on route options. Create a route or load a previously saved route.

On the ROUTE PLANNING WINDOW:

1. Tap the Show Route button.
   The map opens in **Preview** mode and displays the calculated route.
2. Tap Options > Route Profile.
   You can view and, if necessary, change any of the displayed options.

Note: Once options are changed, they remain in effect for all subsequent navigation. You can get information regarding changing individual route profiles by tapping the corresponding (Help) button.

Simulating routes

You can also view a simulation of a calculated route.

Note: GPS signal reception is not required for simulation.
Simulations are restricted to routes of a maximum of 60 miles.

Starting a route simulation

You have calculated and displayed a route.

With the route displayed in Map **Preview** mode:

- Tap Options > Simulation.
  The route is recalculated for simulation purposes. Simulation starts when calculation has finished.

Ending simulation

You can end simulation at any time.

While viewing the route simulation:

- Tap (Back).
  A window prompts you to confirm your decision to cancel navigation.

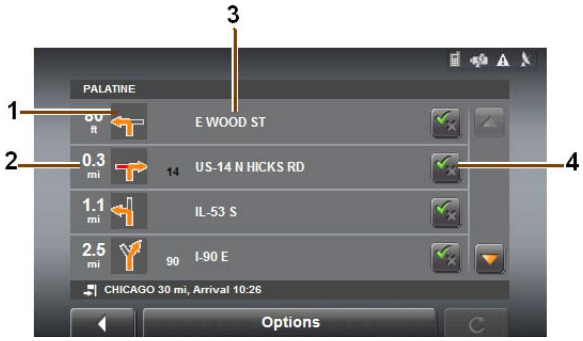
  The ROUTE PLANNING WINDOW redisplays.

Viewing a Turn-by-Turn List

You can display detailed directions of the calculated route before starting navigation or at any time during navigation. This list displays all of the driving instructions in table form.

With the route displayed in **Preview**, **Navigation**, or **Reality View** mode:

- Tap the Show Turn-by-Turn List button.
  The TURN-BY-TURN LIST WINDOW opens.



1. Schematic depiction of the next junction where you must turn.
2. Distance to this junction.
3. Name of the street onto which you must turn.
4. Indicates whether you want to travel on the section of the route.

(Allow) Include this section in the route.

(Forbid) Exclude this section from the route.

Blocking route sections

On the TURN-BY-TURN LIST WINDOW:

1. Tap on the route section you do not want to travel on, so that the (Forbid) symbol appears next to them.
2. Tap (Modify Route).
   The navigation system calculates an alternative route avoiding the route sections selected. The new driving instructions are displayed in the TURN-BY-TURN LIST WINDOW.
3. Tap (Back) to close the TURN-BY-TURN LIST WINDOW.

Removing blocks and using original routes

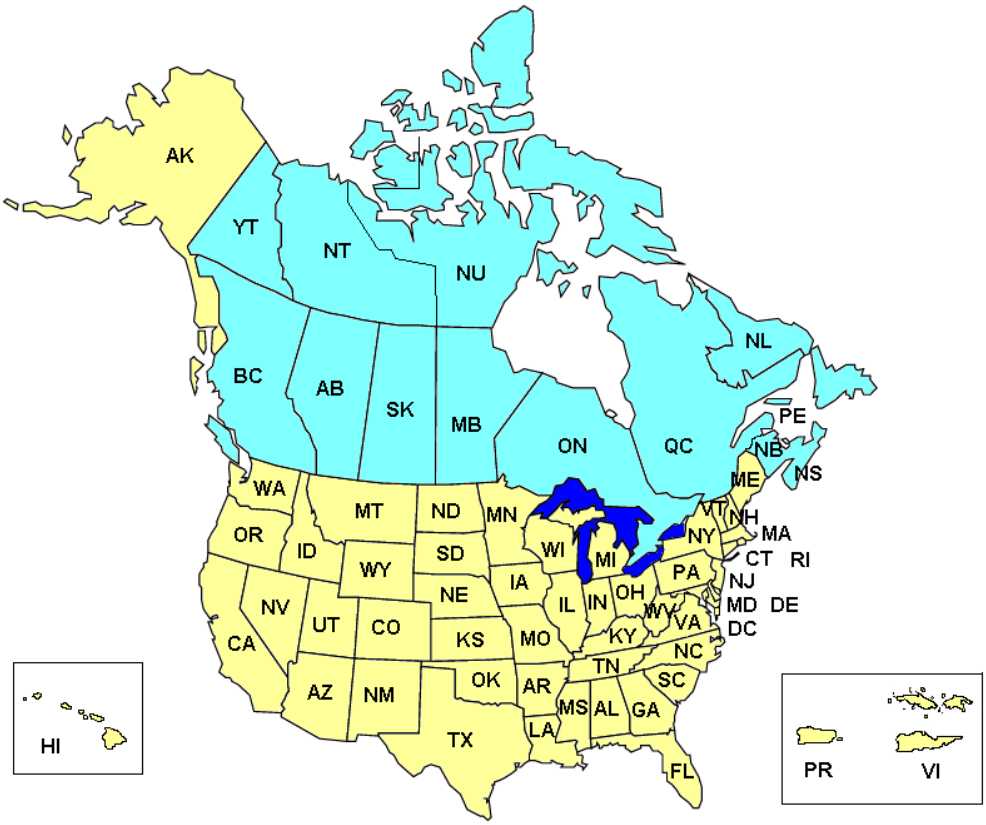
Section blocks can be removed at anytime.

On the TURN-BY-TURN LIST WINDOW:

- Tap Options > Calculate original route.

Working With Maps

Your SmartMirror comes with maps of the 48 contiguous United States, Alaska, Hawaii, Puerto Rico and the Virgin Islands, and all 13 Canadian provinces/territories.



View information on the current map

On the MAIN WINDOW:

- Tap Options > Settings > Current Map.
  The CURRENT MAP WINDOW opens.

Selecting a different map

On the MAIN WINDOW:

1. Tap Options > Settings > Current Map.
   The CURRENT MAP WINDOW opens.
2. Tap (List) and select a different map.

View Information About the Map Currently in Use

You can see information about the map currently in use or select another map.

On the MAIN WINDOW:

- Tap Options > Settings > Current Map.

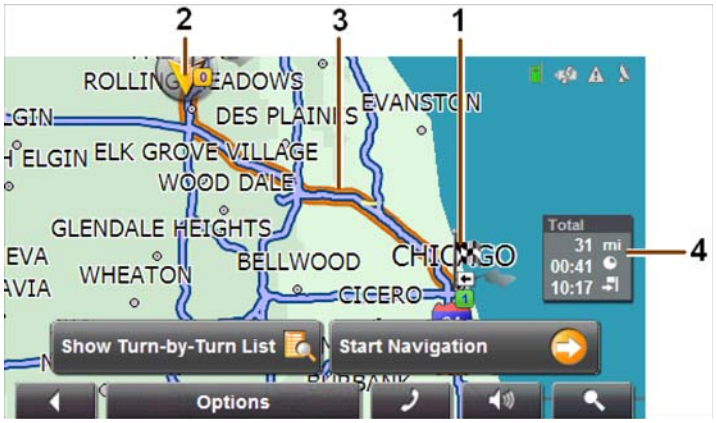
Map in Preview mode

You have entered a destination and tapped the Start Navigation button.

- OR –

You have planned or loaded a route and tapped the Show Route button.

The map opens in **Preview** mode. The entire route is visible.



1. The route is highlighted in orange.
2. A triangle in orange shows your current position.

   If you display a planned or loaded route and the specified starting point is not the same as your current location, the current position may or may not be shown on the preview.
3. The destination is marked with a small flag.

   When you have planned or loaded a route and displayed it, the starting point and each route point is marked with a small flag.
4. The total distance for the route is shown in a small information box, together with the estimated trip time and the estimated time of arrival.

   This information can be displayed or hidden by tapping on Options > Settings > Basic Settings.

   If you display a route with several stages, information for each stage is shown.
5. Tap:
   - The Show Turn-by-Turn button to view detailed directions for the route. (See “Viewing a Turn-by-Turn List” on page 46.)
   - The Start Navigation button to begin the journey.

     When you display a planned or loaded route, the route may be recalculated. Starting point for the calculation is your current location. Once the route is calculated, you are guided to the first route point.
   - Options > Route Profile to view or change the settings used to calculate the route.
   - (Destination search) to view the map in **Destination search** mode.

Map in Navigation mode

After the route has been viewed in **Preview** mode, navigation starts.

Navigation is shown in **Navigation** mode.

1. Signposting to be followed is displayed here.
2. Posted speed limits are displayed here (where available).
3. The route is marked in orange.
4. When two maneuvers need to be executed in quick succession, the small arrow field indicates the second maneuver to be executed.
5. The large arrow field shows a schematic depiction of the next maneuver. The remaining distance to the junction is displayed below the arrow.

   As you get closer to the junction, the spot diagram, rather than the distance, is shown.

   The nearer you get to the junction, the more yellow spots are displayed.

   If you don't have to change direction for a longer period, you see only a forward-facing arrow. The distance you travel on the road you are on displays beneath the arrow.

   - Tap the large arrow field to hear current route instructions.
6. The traffic lanes to be followed to your destination are shown in orange.
7. The your current speed and the height above sea level are displayed here.
8. The remaining distance to the destination, the estimated duration of the trip, and the estimated time of arrival are shown.
9. A triangle in orange shows your current position on the map. The map area displayed continually changes so that your current position is always centered on the map.

10. If you are navigating a route with several stages, you see the remaining distance, estimated duration of the trip, and the estimated time of arrival for the next interim destination in the **Next** field.
11. The name of the next stretch of road that you must travel on is displayed in the upper street field.
12. The name of the street you are currently travelling on is displayed in the lower street field.

Note: The displays for many of the above mentioned fields can be configured via Options > Settings > Basic Settings. Some displays only function if the corresponding information is available on the map.
Note: If you tap on the large arrow field, the current route instruction is repeated.

- Tap Options > Show Turn-by-Turn List to view detailed directions for the route. (See “Viewing a Turn-by-Turn List” on page 46.)
- Tap (Destination search) to view the map in **Destination search** mode. (See “Map in Destination search mode” on page 52.)
- Tap (Back) to quit navigation

Map functions in Navigation mode

When the map is open in **Navigation** mode, tap any point on the map. Buttons with various functions are displayed.

2D/3D:	Changes between 2D and 3D mode. The symbol for the mode that is currently set is marked orange.
Day/Night	Changes between "day" and "night" display modes. The symbol for the mode that is currently set is marked orange.
Interim Destination	Opens a menu for entering an interim destination. The navigation system first guides you to this interim destination. Afterwards, you can simply continue navigation to your original destination.
Skip Route Point	Tap this button to omit the next route point. This button is inactive when less than 2 route points are pending.
Block	Tap this button in order to block a section of the route that lies in front of you, i.e. to recalculate the route in order to avoid this section of the route, e.g. if you have heard of a traffic jam relating to this section on the radio. Tap this button again to remove the block.
POI on Your Route	Tap this button to display POIs on your route. This enables you to find out, for example, how far it is to the nearest services. A destination shown here can be added as an interim destination by tapping the (Interim Destination) button to the right of its entry in the list.

Map in Destination search mode

The map is always in **Destination search** mode when a pair of cross hairs can be seen.

When you are driving, the map's orientation does not change. It is always oriented with north at the top.

	Zoom Out	The map section shown becomes larger, but fewer details are shown.
	Zoom In	The map section becomes smaller, but more details are shown.
	Zoom Mode	When this button is active, you can plot a map section with your finger. Plot the map section from upper left to bottom right and it zooms to fit the size of the screen. Plot the map section from bottom right to top left, and the map zooms out.
	Pan Mode	When this button is active, you can move the map section with your finger. Tap on the map and drag it in the desired direction.
	Entire Route	Zooms the map so that the entire route is visible.
	Current Position	Selects the map section shown so that the current location is centered.

Operating in Destination search mode

1. Tap on the point to which you wish to navigate.
   The destination that you have selected appears under the cross hairs.

2. Tap (OK).
   Buttons with various functions appear.

Take Me There	Begins navigation to the selected point. If you are currently navigating, navigation stops.
Interim Destination	Sets the selected point as an interim destination. The navigation system first guides you to this interim destination. Afterwards, you can continue navigation to your original destination. This function is only active during navigation.
Set as Destination	Adds the selected point as the last point in the route plan. If no route plan was open, the selected point becomes the first point in a new route plan.
Save	Opens the SAVE DESTINATION AS... WINDOW. You can enter a name for the selected point to be stored in the FAVORITES list.

For more information, see “Starting navigation” on page 33.

Search Nearby	Opens the POI NEARBY WINDOW. Here you can search for destinations near the specified point. (See “POIs nearby” on page 22.).

- Tap (Destination search) to quit the **Destination search** mode. You are returned to the window from which you started this mode.
- Tap (Back) to return to the MAIN WINDOW. If you are currently navigating, you are prompted to confirm your decision to quit navigation.

Reality View (Junction View)

When, during navigation, you approach a highway junction, the map changes to **Reality View** mode.

When the screen orientation is set to portrait, Reality View map mode is not available.

The **Reality View** mode shows the signposting and lanes you must follow. This mode displays until you pass the highway junction. Once past the junction, the map returns to **Navigation** mode.

While traveling through the highway junction:

- To change from **Reality View** back to **Navigation mode**, tap anywhere on the map.
- To change from **Navigation Mode** back to **Reality View**, tap the Next Maneuver button.

Note: Reality View mode is not available for every highway junction. Availability is dependent on the map data currently in use.

Customizing Your *SmartMirror*

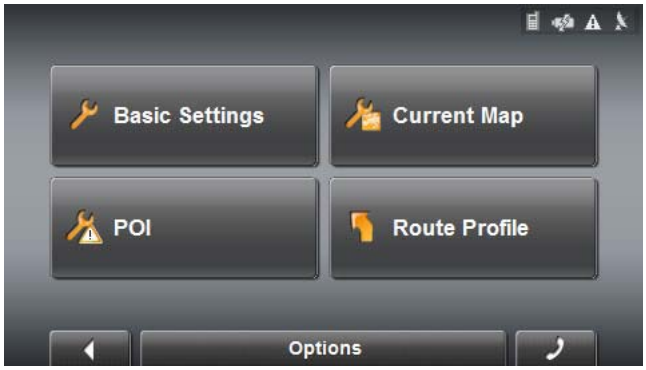
Accessing the Settings window

The settings can be reached via the options of several windows.

- Tap Options > Settings.

The Settings window

The SETTINGS WINDOW is where you can customize your ***SmartMirror's*** navigation settings to suit your personal needs and preferences.



The SETTINGS WINDOW has several buttons.

- Tap a button to open the corresponding settings window.

Basic Settings

These settings include:

Language	Select the language to display on the screen. Options are English, Spanish, or French.
Speak Street Names	Indicate whether street names are spoken during navigation.
Reality View	Indicate whether Reality View displays a visual representation of an approaching junction. Highway signs and the lane to be used are indicated. (This feature is dependent on the selected map and may not be available in all areas.)
2D Zoom Factor	Indicate how auto-zoom behaves by default when a 2D view mode is selected. The zoom changes, based on speed. When driving slower, the map scale gets smaller. When driving faster, the map scale gets larger. Options are no automatic zoom, smaller or larger map sections, or standard.

3D Map:Show Street Names	Indicate whether to show street names on maps displayed in 3D view mode.
2D Map:Show Street Names	Indicate whether to show street names on maps displayed in 2D view mode.
2D Map Orientation	Indicate the orientation of maps shown in 2D map view mode. Options are direction of travel, or whether to show 2D map view orientation in the direction of travel (the direction you are driving is always at the top of the map), or Always North (magnetic North is always at the top of the map).
Orientation	Indicate the orientation of the display. Options are Portrait or Landscape. **Note**: Reality View map mode is not available when the screen orientation is set to Portrait.
Show Altitude and Speed	Show or hide the altitude and current speed on a displayed map.
Display Compass	Show or hide a small compass on screen during navigation.
Show Remaining Distance	Show or hide the distance remaining to the destination or an interim destination, if applicable.
Show Duration of Journey	Show or hide the travel time remaining to the destination or an interim destination, if applicable.
Show Time of Arrival	Show or hide the time of arrival at the destination or an interim destination, if applicable.
Info When Crossing Borders	Show or hide local speed restrictions when crossing a country border.
Show Speed Limits	Select whether to show highway speed limits. Options are always, only when exceeding the speed limit, or never.
Warnings Within Urban Areas	Indicate whether a warning displays when exceeding the speed limit in densely populated areas. Options are to never warn, or to display a warning when 5, 10, 15 or 20 mph over the stated speed limit.
Warnings Outside of Urban Areas	Indicate whether a warning displays when exceeding the speed limit in less densely populated or rural areas. Options are to never warn, or to display a warning when 5, 10, 15 or 20 mph over the posted speed limit.
Warn Against Conditional Speed Limits	Show or hide speed limit restrictions in force during special situations, such as rain, snow, time of day restrictions, etc.
Menu Animation	Indicate whether the opening of menus is animated.
Distance Unit	Indicate the distance unit to be used, either Miles

	or Kilometers.
Time Format	Indicate how times are displayed, either a 12 hour format (with am and pm), or a 24 hour format.
Coordinates Display	Show or hide coordinates.
Coordinate Format	If coordinates are shown, indicate whether they display in decimal format or in minutes and seconds format.
Brightness Day	Indicate the display brightness for use during the daytime. Options are from 1 (less bright) to 8 (most bright).
Brightness Night	Indicate the display brightness for use at night. Options are from 1 (less bright) to 8 (most bright).
Speed-Dependent Volume	Indicate whether you want the volume level to increase when your speed increases. Options are never, yes with a low amplification, or yes with a high amplification.

Current Map Settings

These settings include:

Current Map	Displays information on the currently displayed map. If additional maps are available, you can select a different map. Options are: Alaska, Hawaii, Puerto Rico, or USA and Canada.

POI Settings

These settings include:

Categories Shown	Specify the number of POI categories that are shown on the displayed map.
Direct Access 1	Select the first POI category to display for use with the POI direct access and POI nearby functions.
Direct Access 2	Select a second POI category to display for use with the POI direct access and POI nearby functions.
Direct Access 3	Select a third POI category to display for use with the POI direct access and POI nearby functions.

Route Profile Settings

These settings include:

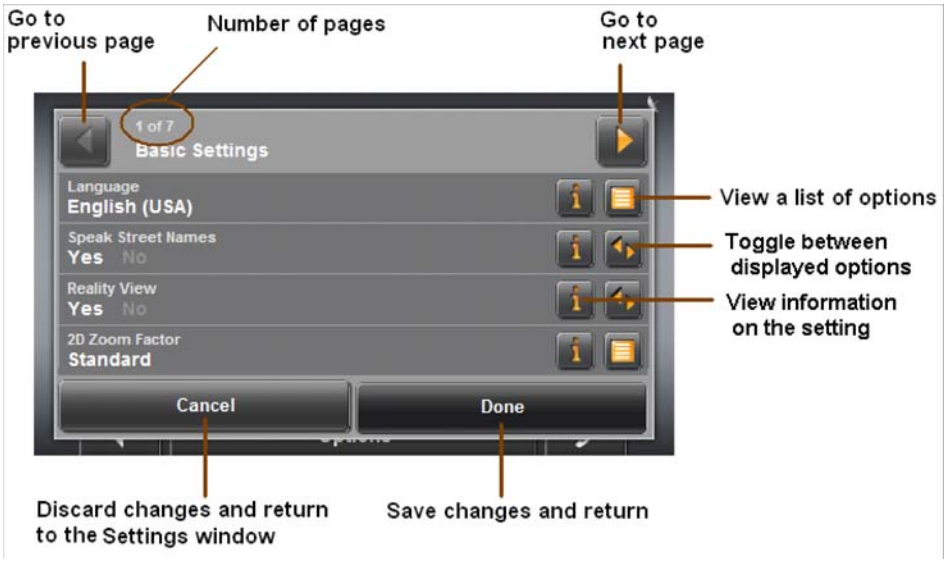
Speed Profile	Select the type of transport, such as, fast or slow car, truck, motorcycle, bicycle, or pedestrian. This is used for calculating routes and arrival times.
Type of Route	Select the type of route to be calculated: Fast, Optimum, Short, or Scenic.
Highways	Select whether highways are included in a calcu-

	lated route.
Toll Roads	Select whether toll roads are included in a calculated route.
Ferries	Select whether ferries are included in a calculated route.
Calculate the Next Stage	For routes with multiple stages. After reaching a route point, select whether the next stage is calculated automatically.
U-turn allowed	Select whether u-turns are considered when calculating a route.

Options Button

Password Lock	Select this option to add, change, or remove a device password.
Production Information	Select this option to view NAVIGON 5100 software and hardware versions, as well as, information on the maps, traffic and Zagat POIs.
Touchscreen Calibration	Select this option to recalibrate the touchscreen.
Factory Settings	Select this option to reset the device to default values. Destinations and routes saved on the memory card are not affected.

Selecting options



Moving between pages

The settings of the individual windows are distributed on several windows.

- Move between windows by tapping (To the Left) and (To the Right).

Viewing a list of options for a setting

Some settings have several values. A value can be selected from a list. The value that is currently valid is shown.

1. Tap (List).
   A list with all potential values opens. The value that is currently valid is marked.
2. Tap the desired value. It is now marked.
3. Tap the OK button.
   The list closes. The new value is displayed.

Toggling between options

Some settings can only accept two or three different values. All values are displayed with the currently selected value shown in black.

- Tap (Toggle) to alternate between values.

- Tap (Toggle) to alternate between the potential values.

Viewing information about a setting

For each setting there is a (Help) button. When you tap it, you see a precise explanation of the corresponding setting.

Saving changes

- Tap the Done button.
  Any changes you have made are saved.

The SETTINGS WINDOW opens again.

Discarding changes

- Tap the Cancel button.
  Any changes you have made are discarded.

The SETTINGS WINDOW opens again.

Technical Data

Specifications

CPU	Samsung S3C2440A-400MHZ
RAM	64MB
Memory card	2GB
LCD	4-inch / 480x272 pixel
Touch Screen	Four-line resistive touch
Speakers	Internal 8Ω/1W
GPS	Samsung Sirf-III
Bluetooth	Version 1.2
Power Supply	12VDC
Power Consumption	<10W
Current Draw	<500 mA
Video Format	PAL/NTSC
Video Input	1Vp-p@ 75 Impedance
Operating Temperature	0 °C - 60 °C

Compliance Notices

The SmartMirror complies with Part 15 of the FCC interference limits for Class B digital devices for home or office use.

“Operation is subject to the following two conditions: (1) this device may not cause interference,and (2) this device must accept any interference, including interference that may cause undesired operation of the device.”